Royana

D.O.T. 66

DEPARTMENT OF TRANSPORTATION **STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

EDS-441(44) Morgan County

OFFICE Preconstruction

P. I. No. 222570

DATE

June 19, 1997

FROM

C. Wayne Hutto, Assistant Director of Preconstruction

TO

SEE DISTRIBUTION

PROJECT CONCEPT REPORT APPROVAL **SUBJECT**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Walker Scott

Bobby Mustin

David Studstill (ATTN: Harvey Keepler)

Jerry Hobbs

Herman Griffin

Marta Rosen (ATTN: Michael Henry)

Marion Waters

Toni Dunagan

Paul Liles

Jim Hitt (Traffic Ops)

Jim Kennerly

Charles Norris

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

EDS-441(44) Morgan County

OFFICE Preconstruction

P.I. No. 22257

DATE

June 5, 1997

FROM

t, Jr., P.E., Director of Preconstruction

TO

Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

This project is the widening and reconstruction of US 441/SR 24 from the Putnam-Morgan County line to Industrial Park Road/CR 225 for a total of 13.0km. The existing roadway varies from 2 to 3 lanes with rural shoulders on 30.0m of existing right-of-way. The existing major structure consists of a 81.0m x 8.0m bridge over I-20 with a sufficiency rating of 80. State Route 24/US 441 is a primary north-south corridor in east Georgia and is part of the Governor's Road Improvement Program (GRIP). The existing roadway is reaching capacity and improvement will be required to maintain an acceptable level of service. This project is on a proposed bicycle route as identified in the Georgia Statewide Bicycle and Pedestrian Plan. The base year traffic (2001) varies from 9,550 VPD to 23,800 VPD and the design year traffic (2021) varies from 16,200 VPD to 40,450 VPD. The posted speed is 90km/h and the design speed is 105km/h.

The proposed construction will provide four, 3.6m lanes with a 13.4m depressed grassed median from the Putnam-Morgan County line to 667.0m south of Pierce Dairy Road/CR 121, where it transitions to four, 3.6m lanes separated by a 6.1m raised median and ties into the existing 5 lane section south of the Madison Bypass. This project will include 2.4m paved shoulders, including a 1.2m bike lane, on both sides for the entire project length. Approximately 90% of the existing roadway requires reconstruction. No design exceptions are required to implement this project. The southern terminus of this project ties into project EDS-441 (45) Putnam County, with a similar typical section. Traffic will be maintained utilizing stage construction.

Environmental concerns include requiring a COE 404 permit; an Environmental Assessment will be prepared; 23 displacements--16 residences, 6 businesses, and 1 mobile home; a public hearing will be held; time saving procedures are not appropriate.

Wayne Shackelford Page 2

EDS-441(44) Morgan June 5, 1997

The estimated costs for this project are:

	P	ROPOSED	A	PPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	\$1	18,515,000	\$1	3,725,000	2000	LR
Right-of-Way	\$	9,967,000	\$	1,150,000		
Utilities*	\$	711,000	\$	711,000		

^{*}Morgan County refused LGPA for utilities 2-15-96.

The US 441 improvements are part of the GRIP. I recommend this project concept be approved.

WWS:JDQ/cj

Attachment

CONCUR_

Frank L. Danchetz, P.E., Chief Engineer

APPROVE

ne hackelford, Commissione

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE:

EDS-441(44) MORGAN

P.I. Number 222570

FRECORSTACETION OFFICE: Atlanta, Georgia

DATE:

APRIL 2, 1997

FROM:

Bob Mustin, Project Review Engineer Arm

TO:

C. Wayne Hutto, Assistant Director of Preconstruction

SUBJECT: PROJECT CONCEPT REPORT

We have reviewed the concept report submitted March 26, 1997 by the letter from David Studstill dated March 24, 1997 and have no comments.

The estimated costs for the project are as follows:

Construction \$ 15,302,000 \$ 1,530,000 Inflation E & C \$ 1,683,000 \$ 9,967,000 Right of Way Reimbursable Utilities \$ 711,000

DTM

c: David Studstill

Johnny

DN

MAR

PRECONSTRUCTION

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-441(44)

OFFICE Environment/Location

Morgan County

P.I. No.: 222570

DATE March 24, 1997

FROM

David E. Studstill, P.E., State Environment/Location Engineer

TO Wayne Hutto, Assistant Director of Pre-Construction

SUBJECT Concept Report - US 441 Improvements

In accordance with the Plan Development Process, the concept report for the above project is attached for your review and processing.

If there are questions please contact Roxana Ene at 404-699-4464.

DES/RRE

Attachments

cc: Bobby Mustin, Project Review Engineer
James Kennerly, State Road and Airport Design Engineer
Marion Waters, State Traffic Operations Engineer
Paul Liles, State Bridge and Structural Design Engineer
Charles Norris, Tennille District Engineer

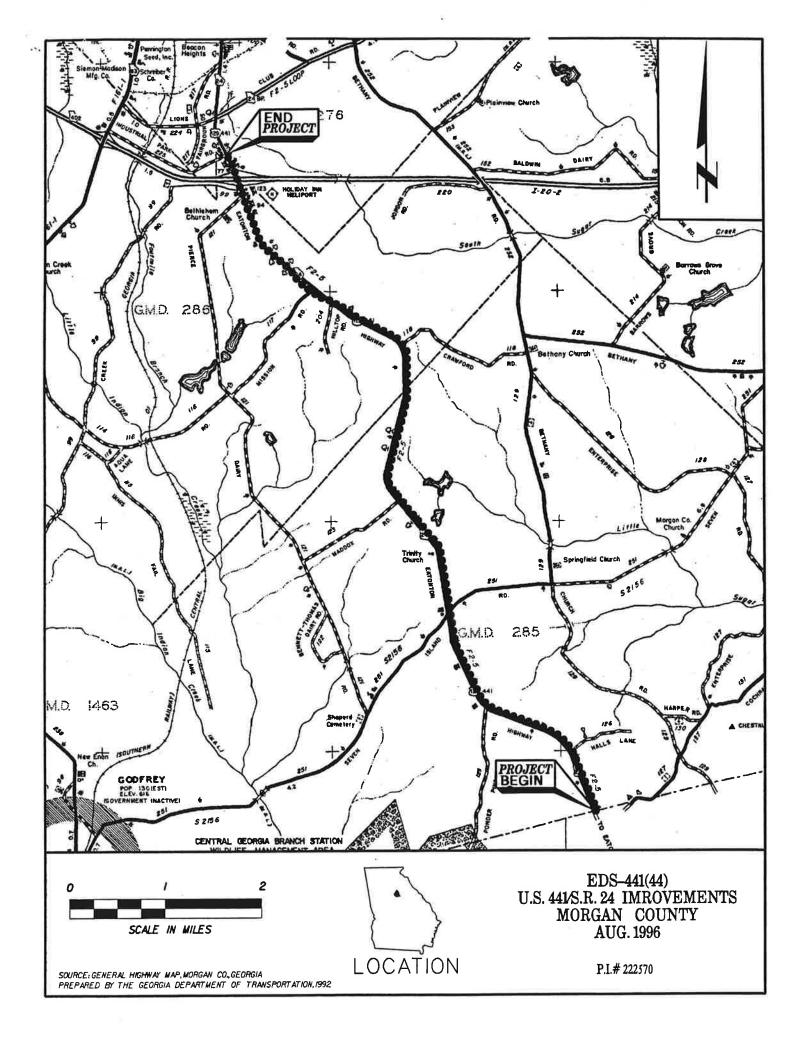
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT EDS-441(44) PUTNAM COUNTY P.I. NO. 222570

US Route No.:	441	Date of Report:	March 3, 1997
		bale of kepoli.	Maich 3, 1997
State Route No.:	24		
	REC	OMMENDATION FOR APPROVAL	
3/18/97 Date		State Environmental/Location Eng	ineer
Date		State Road & Airport Design Engine	eer
Date		State Traffic Operations Engineer	
Date		District Engineer/Tennille	
Date		Project Review Engineer	_

Date

State Bridge & Structural Design Engineer



PROJECT CONCEPT REPORT

MORGAN

PROJECT NUMBER: EDS-441-(44) PUTNAM COUNTY

PROJECT LOCATION AND DESCRIPTION

Project EDS-441(44) is the proposed improvement to the existing US441/SR24. This project proposes to widen the existing roadway from 2 and 3 lanes to 4 with a 44 foot (13 m) grassed median and a 20 foot (6 m) raised median. The project begins at the Putnam-Morgan County line and extends north 8.6 miles (13 km) to Industrial Park Road (CR225). At its beginning, the project holds the existing pavement left, widening the right side. Just past Halls Lane (CR126), the concept continues to widen on the right side holding the existing R\W on the left side, to avoid a historic boundary. The project keeps the same concept until Hill Top Rd.(CR204) where alignment changes to the left side and holds existing R\W right to avoid the "Tucker family graves", an historic monument. Approximately 2200' (667 m) south of Pierce Dairy Rd.(CR121), concept begins transitioning to a 20' (6 m) raised median and ties into the existing 5 lane section. The project ends at Industrial Park Rd.(CR225)

Design speed is 65 mph (105 km/h), proposed ROW is 250' (80 m) for 44 ft. (13 m) median and 150' (46 m) for the 20' (6 m) raised median. Access control would be by permit. Less than 1 ac. of possible wetlands would be impacted. Sixteen houses, 6 business buildings and 1 mobile home would be displaced.

	TRA	FFIC			
	CUI	RRENT	PRO	TECTED	
SECTION	YEAR	AADT	YEAR	AADT	
US 441 improvement	2001	9,550-23,800	2021	16,200-40,450	
PDP CLASSIFI	CATION	FUNCTI	ONAL CLASSIFI	CATION	
MAJOR/EXISTING		F	RURAL ARTERIA	L	
NON-CA(x)	CA()	EXEMPT ()		N/A (x)	

NEED AND PURPOSE

S.R. 24 is a primary north-south corridor in east Georgia. These proposed projects involve the widening and reconstruction of S.R. 24 from C.R. 245 in Putnam County northerly, to the southern terminus of the Watkinsville Bypass in Oconee County. The need and purpose of this project is twofold. First, the S.R. 24 Improvements are part of the Governor's Road Improvement Program (GRIP). The improvement involves the multi-laning of S.R. 24 along the U.S. 441 GRIP corridor. GRIP was initiated in the 1980's in order to address the importance of stimulating economic growth via an improved transportation network.

The second part of the need and purpose pertains to the highway capacity of S.R. 24. The roadway is reaching capacity and improvements will be required to maintain an acceptable level-of-service. The project will increase the capacity and level-of-service on S.R. 24 by widening it from two lanes to four lanes. The Average Daily Traffic (ADT), within the limits of EDS-441 (40,45,44,42,43), ranged between 4,800 to 12,100 in 1994. The 20 year (2013) projected volume ranges between 13,163 and 25,053 ADT. The Level of Service (LOS) for this section of S.R. 24 within the project limits was computed to be at "C" in 1994 which indicates that traffic flow may be susceptible to congestion and passing impediments. This road widening project will reduce traffic congestion and driver discomfort.

EXISTING ROADWAY							
TYPICAL SECTION:	2 and 3 - 3.6 m LANES WITH OPEN DITCH DRAINAGE	RIGHT-OF-WAY WIDTH 30 m					
POSTED SPEED	MINIMUM RADIUS OF CURVE	MAX GRADE					
90 km/h	437 m	5.00%					

MAJOR STRUCTURES								
FEATURES INTERSECTED/TYPE	LENGHT	WIDTH	PRIORI TY RATING	SUFF. RATING				
BRIDGE OVER I-20	81 m	8 m	~	80				

WIDENING EXISTING US 441 TYPICAL SECTION: 4 LANES RURAL WITH 13.6 m MEDIAN DESIGN SPEED MINIMUM RADIUS OF CURVE MAX. GRADE 105 km/h ALLOWABLE 466 m ALLOWABLE 4.00% PROPOSED 582 m PROPOSED 3.00%

()

NEW LOCATION

TYPICAL SECTION: 4 LANES RURAL WITH 13.6 m MEDIAN AND 4 LANES RURAL WITH 6 m MEDIAN

PROPOSED MAJOR STRUCTURE

FEATURES INTE	LENGHT	WIDTH			
BRIDGE OVER I-2	81 m	28 m			
DESIGN SPEED		MINIMUM RAI	DIUS OF CURVE	MAX. G	FRADE
105 km/h		ALLOWABLE	466 m	ALLOWABLE	4.00%
		PROPOSED	499 m	PROPOSED	3.00%
		PROPOSED R	IGHT-OF-WAY		
RIGHT-OF-WAY WIDTH	PARC	ELS IMPACTED		DISPLACEMENTS	
80 m 45 m		73	RES.: 16	BUS.: 6	М.Н.: 1

COORDINATION

TYPE OF ACCESS CONTROL:

BY PERMIT.

CONCEPT TEAM MEETING DATE:

JUNE 20, 1996

PERMITS REQUIRED:

INDIVIDUAL PERMIT; LESS THAN 1 AC OF WETLANDS ARE

AFFECTED.

LEVEL OF PUBLIC INVOLVEMENT:

PUBLIC HEARING

TIME SAVING PROCEDURES APPROPRIATE:

SUBST ROADWAY WIDTH

NO

OTHER PROJECTS IN THE AREA:

EDS-441(45) and EDS-441(42)

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION:	N: TRAFFIC TO BE MAINTAINED ON EXISTING ROADS.				
LEVEL OF ENVIRONMENTAL ANALYSIS:	EA				
UNDERGROUND STORAGE TANKS:	NONE KNOWN; INVESTIGATION REQUESTED 8/23/9				
HAZARDOUS WASTE SİTES:	NONE KNOWN; INVESTIGATION REQUESTED 8/23/96				
DESIGN VARIATIONS REQUESTED:					
	YES	NO	UNDETERMINED		
SUBST HORIZ ALIGNMENT	()	(X)	()		

()

(X)

Page 6

ALTERNATIVES CONSIDERED: NO BUILD

ESTIMATED COST

CONSTRUCTION:	\$15,302,000	RIGHT-OF-WAY:	\$9,967,000
E & C (10%):	\$1,530,000	ACQUIRED BY:	D.O.T.
INFLATION:	\$1,725,000	UTILITIES:	\$711,200
(2 yrs at 5% per yr)		ADJUSTED BY:	LGPA WAS REQUESTED
TOTAL CONS'T COST:	\$18,557,000		

COMMENTS

- 1. TOTAL RECONSTRUCTION FOR THIS PROJECT IS 90%.
- 2. THE TWO PROJECTS EDS-441 (44) AND EDS-441 (45) ARE TO BE WORKED TOGETHER FOR PERMITTING AND ENVIRONMENTAL CONSIDERATIONS.

ATTACHMENTS: COST ESTIMATE, TYPICAL SECTIONS, TEAM MEETING MINUTES

PREPARED BY: ROXANA ENE, L.E. I

PRLLIMINARY COST ESTIMALE OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 222570	DATE: 03-07-1997
PROJECT NO: EDS-441(44)	
PROJECT NAME: US441\SR24 IMPROVEMENTS	=
COUNTY: MORGAN	
PROJECT DESCRIPTION:	
US441/SR24 IMPROVEMENTS FROM PUTNAM/MORGAN COUNTY	
LINE TO MADISON BP	
PROJECT LENGTH: 8.600 MILES SECTION LENGTH	TH: 6.600 MILES
TYPICAL SECTION:	
RURAL NEW LOCATION-4-LANES WITH 44' DIV MEDIAN (48' PAV'T)	
PROPOSED R / W = 250 ft	
EXISTING ROADWAY (If Applicable): 2 AND 3 LANES WITH OPEN DITCH DRAINAGE	e in the second
TRAFFIC: INITIAL DESIGN YEAR: 2001 DAILY VOLUME (AAD)	Γ): <u>16,000</u>
FINAL DESIGN YEAR: 2021 DAILY VOLUME (AAD)	Γ): 28,200
COMMENTS:	
PREPARED BY: ROXANA ENE LE I	

PROJECT COSTS

A. RIGHT - OF - WAY			
 PROPERTY (Land and Easements) DISPLACEMENTS 		<u>\$</u>	0
3. OTHER COST	SUBTOTAL	\$ \$	<u>0</u>
B. REIMBURSABLE UTILITIES			
1. RAILROAD 2. TRANSMISSION LINES 3. SERVICES		\$ 5	0 0 0
	SUBTOTAL	\$	0
C. MAJOR STRUCTURES 1. WALLS		\$	0
2. BRIDGE STREAM CROSSING		\$	<u>O</u>
3. BRIDGE OVER/UNDERPASS		\$	0
4. BOX CULVERTS		\$	0
	SUBTOTAL	\$	0
D. GRADING AND DRAINAGE 1. EARTHWORK			
a. UNCLASSIFIED EXCAVATION SOIL		\$	403,000
280,000 CY @ \$1.44 b. UNCLASSIFIED EXCAVATION ROCK 28,000 CY @ \$4.00		\$	112,000
c. BORROW EXCAVATION 0 CY @ \$3.00		<u>\$</u>	0
 2. DRAINAGE a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System) 6.600 MILES @ \$82,080 		\$	542,000
b. CURB AND GUTTER 0 LF @ \$9.27		\$	0
	SUBTOTAL	<u>\$</u>	1,057,000

PROJECT COSTS

con't.

E. BASE AND PAVING			
1. GRADED AGGREGATE BASE		\$	1,936,000
12.00" 156,119 T @ \$12.40		-00	
2. ASPHALT PAVING			
a. ASPHALTIC CONCRETE "E"		\$	741,000
1.50" 22,993 T @ \$32.22			
b. ASPHALTIC CONCRETE "B"		\$	977,000
2.00" 30,657 T @ \$31.87		٠,	0.067.000
c. ASPHALTIC CONCRETE BASE 9.00" 96,180 T @ \$30.85		\$	2,967,000
d. BITUMINOUS TACK COAT		\$	29,000
33,628 G @ \$0.85		4	25,000
3. CONCRETE PAVING		\$	0
4. OTHER PAVING		\$	
4. OTHER PAVING	CLIDEOEAL		665,000
	SUBTOTAL	\$	7,315,000
F. LUMP ITEMS		5.90	
1. TRAFFIC CONTROL		\$	35,000
2. CLEARING AND GRUBBING		\$	940,000
200 ACRES @ \$4,700		-	3107000
3. LANDSCAPING		- \$	337,000
6.600 MILES @ \$51,000			337,000
4. EROSION CONTROL		\$	317,000
6.600 MILES @ \$48,000		- 14	32.733
5. DETOURS (Including Temporary Bridges)		\$	0
C. D. D. C.	SUBTOTAL		
	SUBTOTAL	<u> </u>	1/02//000
G. MISCELLANEOUS			
1. SIGNING/STRIPING		\$	244,000
6.600 MILES @ \$37,000		-	
2. GUARDRAIL		\$	0
0 LF @ \$11.46 + 0 Anchors @ \$1,326.82		_	
3. OTHER		\$	1,063,000
6.600 MILES @ \$161,100		_	
	SUBTOTAL	\$	1,307,000
TA CONTINUE TO A STATE OF THE S			
H. SPECIAL FEATURES		<u>\$</u>	0

ESTIMATE SUMMARY

				ION COST er mile)
A. RIGHT-OF-WAY	\$	0	\$	0
B. REIMBURSABLE UTILITIES	\$	0	\$	0
CONSTRUCTION COST S	SUM!	MARY		
C. MAJOR STRUCTURES	\$	0		
D. GRADING AND DRAINAGE	\$	1,057,000	2	
E. BASE AND PAVING	\$	7,315,000		
F. LUMP ITEMS	\$	1,629,000		
G. MISCELLANEOUS	\$	1,307,000	F	
H. SPECIAL FEATURES	<u>\$</u>	0		
SUBTOTAL CONSTRUCTION COST	\$	11,308,000	\$ 1,	,713,000
E. & C. (10%)	\$	1,131,000		
INFLATION 2 yr(s) @ 5% per year	<u>\$</u> _	1,275,000		
TOTAL CONSTRUCTION COST	\$	13,714,000	\$ 2	,078,000
GRAND TOTAL CONSTRUCTION COST	\$	13,714,000	\$ 2	,078,000

RURAL NEW LOCATION-4-LANES WITH 44' DIV MEDIAN (48' PAV'T)

PR LIMINARY COST ESTIMA L OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 222570	DATE: 03-07-1997
PROJECT NO: EDS-441(44)	
PROJECT NAME: US441/SR24 IMPROVEMENTS	
COUNTY: MORGAN	
PROJECT DESCRIPTION:	
US441/SR24 IMPROVEMENTS FROM PUTNAM/MC	DRGAN COUNTY
LINE TO MADISON BP	
PROJECT LENGTH: 8.600 MILES	SECTION LENGTH: 1.000 MILES
TYPICAL SECTION:	
RURAL WIDENING-2 TO 4 LANES WITH 44' DIV M	MEDIAN (48' PAV'T)
PROPOSED R / $W = 250$ ft	
EXISTING ROADWAY (If Applicable):	
2 AND 3 LINES WITH OPEN DITCH DRAINAGE	
TRAFFIC: INITIAL DESIGN YEAR: 2001	DAILY VOLUME (AADT): 16,600
FINAL DESIGN YEAR: 2021	DAILY VOLUME (AADT): 28,200
COMMENTS:	
*	
PREPARED BY: ROXANA ENE LE I	

PROJECT COSTS

A. RIGHT - OF - WAY		
 PROPERTY (Land and Easements) DISPLACEMENTS OTHER COST 	\$ \$	0 0 0
SUBTOTAL	\$	0
B. REIMBURSABLE UTILITIES		
1. RAILROAD 2. TRANSMISSION LINES 3. SERVICES	\$ \$	0 0 0
SUBTOTAL	\$	0
C. MAJOR STRUCTURES 1. WALLS	\$	0
2. BRIDGE STREAM CROSSING	_ \$	0
3. BRIDGE OVER/UNDERPASS	\$	0
4. BOX CULVERTS	\$	0
SUBTOTAL	\$	0
D. GRADING AND DRAINAGE 1. EARTHWORK		
a. UNCLASSIFIED EXCAVATION SOIL	\$	91,000
52,000 CY @ \$1.76 b. UNCLASSIFIED EXCAVATION ROCK 5,000 CY @ \$4.00	\$	20,000
c. BORROW EXCAVATION 0 CY @ \$3.00	_ \$	0
2. DRAINAGE a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System)	\$	40,000
1.000 MILES @ \$39,960 b. CURB AND GUTTER 0 LF @ \$9.27	_ <u>\$</u> _	0
SUBTOTA	L <u>\$</u>	151,000

PROJECT COSTS con't.

H. SPECIAL FEATURES		\$	0
	SUBTOTAL	, <u>\$</u>	65,000
1.000 MILES @ \$35,100			
3. OTHER		\$	35,000
0 LF @ \$11.46 + 0 Anchors @ \$1,326.82		- -	<u> </u>
2. GUARDRAIL		\$	0
1. SIGNING/STRIPING 1.000 MILES @ \$30,000		\$	30,000
G. MISCELLANEOUS		24	20.000
G 155 GD1 1 135 G15	SOBIOTAL	<u> </u>	100,000
3. DIVIOUNS (Including Temporary Bridges)	SUBTOTAL		188,000
1.000 MILES @ \$24,000 5. DETOURS (Including Temporary Bridges)		- \$	ñ
4. EROSION CONTROL		\$	24,000
1.000 MILES @ \$18,000		-	
3. LANDSCAPING		\$	18,000
30 ACRES @ \$4,700		<u>-</u>	112,000
2. CLEARING AND GRUBBING		\$	142,000
1. TRAFFIC CONTROL		\$	4,000
F. LUMP ITEMS			
	SUBTOTAL	\$	768,000
4. OTHER PAVING		\$	70,000
3. CONCRETE PAVING		- \$	0
3,755 G @ \$0.85		- -	3,000
9.00" 7,286 T @ \$30.85 d. BITUMINOUS TACK COAT		\$	3,000
c. ASPHALTIC CONCRETE BASE		<u>\$</u>	225,000
2.00" 5,397 T @ \$31.87		<u></u> -	1,2,000
<u>1.50" 4,048 T @ \$32.22</u> b. ASPHALTIC CONCRETE "B"		\$	172,000
a. ASPHALTIC CONCRETE "E"		<u>\$</u>	130,000
2. ASPHALT PAVING			
12.00" 13,517 T @ \$12.40			
1. GRADED AGGREGATE BASE		\$	168,000
E. BASE AND PAVING			

ESTIMATE SUMMARY

			\$	ON COST mile)
A. RIGHT-OF-WAY	\$	0	\$	0
B. REIMBURSABLE UTILITIES	\$	0	\$	0
CONSTRUCTION COST	SUMN	MARY		
C. MAJOR STRUCTURES	\$	0		
D. GRADING AND DRAINAGE	\$	151,000		
E. BASE AND PAVING	\$	768,000		
F. LUMP ITEMS	\$	188,000		
G. MISCELLANEOUS	\$	65,000		
H. SPECIAL FEATURES	<u>\$</u>	0		
SUBTOTAL CONSTRUCTION COST	\$	1,172,000	\$ 1,1	72,000
E. & C. (10%)	\$	117,000		
INFLATION 2 yr(s) @ 5% per year	<u>\$</u>	132,000		
TOTAL CONSTRUCTION COST	\$	1,421,000	\$ 1,4	121,000
GRAND TOTAL CONSTRUCTION COST	\$	1,421,000	\$ 1,	121,000

RURAL WIDENING-2 TO 4 LANES WITH 44' DIV MEDIAN (48' PAV'T)

PRELIMINARY COST ESTIMA'LE OFFICE OF ENVIRONMENT/LOCATION

P.I. NO: 222570	DATE: 08-27-1996
PROJECT NO: EDS-441(44)	
PROJECT NAME: US441/SR24 IMPROVEMENTS	
COUNTY: MORGAN	
PROJECT DESCRIPTION: US441/SR24 IMPROVEMENTS FROM PUTNAM/MORGAN C LINE TO MADISON BYPASS	OUNTY
PROJECT LENGTH: 8.600 MILES	SECTION LENGTH: 1.000 MILES
TYPICAL SECTION:	
RURAL NEW LOCATION-4-LANES WITH 20' RAISED MED	IAN (48' PAV'T)
PROPOSED R / $W = 150$ ft	
EXISTING ROADWAY (If Applicable): 2 LANES WITH OPEN DITCH DRAINAGE	
TRAFFIC: INITIAL DESIGN YEAR: 2001 DAILY	VOLUME (AADT): 23,800 VOLUME (AADT): 40,450
COMMENTS:	
PREPARED BY: ROXANA ENE TE I	

PROJECT COSTS

A. RIGHT - OF - WAY			
1. PROPERTY (Land and Easements)		\$	0
2. DISPLACEMENTS 3. OTHER COST		\$	0
	UBTOTAL	6000	0
5	UBIUIAL	후	
B. REIMBURSABLE UTILITIES			
1. RAILROAD		\$	0
2. TRANSMISSION LINES 3. SERVICES		<u>Ş</u>	0
	TIDTOTAT	<u> </u>	0
3	UBTOTAL	<u>\$</u>	
C. MAJOR STRUCTURES		2	1-11
1. WALLS		\$	0
2. BRIDGE STREAM CROSSING		\$	0
		e	
3. BRIDGE OVER/UNDERPASS		\$	1,152,239
WIDEN EXISTING BRIDGE AT I-20		->	
4. BOX CULVERTS		\$	_0
		÷: •	
S	SUBTOTAL	<u>\$</u>	1,152,000
D. GRADING AND DRAINAGE		×	
1. EARTHWORK			
a. UNCLASSIFIED EXCAVATION SOIL		\$	73,000
40,000 CY @ \$1.84		_	16.000
b. UNCLASSIFIED EXCAVATION ROCK		\$	16,000
4,000 CY @ \$4.00 c. BORROW EXCAVATION		Š	0
0 CY @ \$3.00			
2. DRAINAGE		_	
a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System)		\$	68,000
1.000 MILES @ \$68,040		n -in,	_
b. CURB AND GUTTER		\$	0
0 LF @ \$9.27		-	
S	SUBTOTAL	, <u>\$</u>	157,000

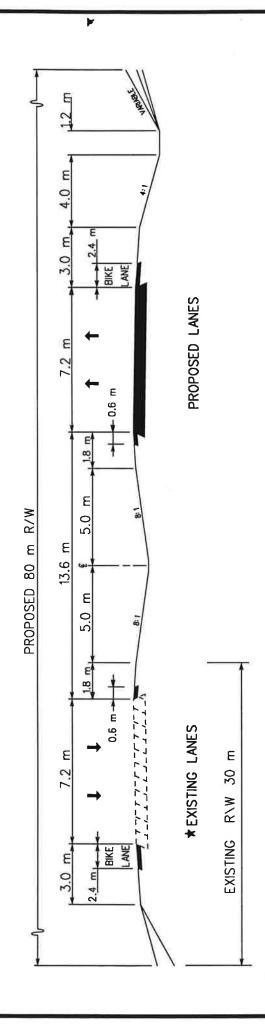
PROJECT COSTS con't.

E. BASE AND PAVING		
1. GRADED AGGREGATE BASE	\$	283,000
12.00" 22,810 T @ \$12.40		
2. ASPHALT PAVING		
a. ASPHALTIC CONCRETE "E"	\$	98,000
1.50" 3,036 T @ \$32.22		
b. ASPHALTIC CONCRETE "B"	\$	129,000
2.00" 4,048 T @ \$31.87	** ***********************************	A E
c. ASPHALTIC CONCRETE BASE	\$	500,000
10.00" 16,192 T @ \$30.85		
d. BITUMINOUS TACK COAT	\$	4,000
5,224 G @ \$0.85		
3. CONCRETE PAVING	\$	0
4. OTHER PAVING	\$	101,000
	SUBTOTAL \$	1,115,000
		-
F. LUMP ITEMS		
1. TRAFFIC CONTROL	\$	10,000
2. CLEARING AND GRUBBING	\$	85,000
18 ACRES @ \$4,700		
3. LANDSCAPING	\$	86,000
1.000 MILES @ \$86,040		*
4. EROSION CONTROL	\$	46,000
1.000 MILES @ \$46,050		
5. DETOURS (Including Temporary Bridges)		0
		227 000
•	SUBTOTAL <u>\$</u>	227,000
G. MISCELLANEOUS		
1. SIGNING/STRIPING	Ś	37,000
1.000 MILES @ \$37,000		
2. GUARDRAIL	\$	14,000
800 LF @ \$11.46 + 4 Anchors @ \$1,326.82	 	117000
		120,000
3. OTHER 1.000 MILES @ \$120,000	1	120,000
	CIDTOTAL	171 000
·	SUBTOTAL <u>\$</u>	171,000
H. SPECIAL FEATURES	<u>\$</u>	0

ESTIMATE SUMMARY

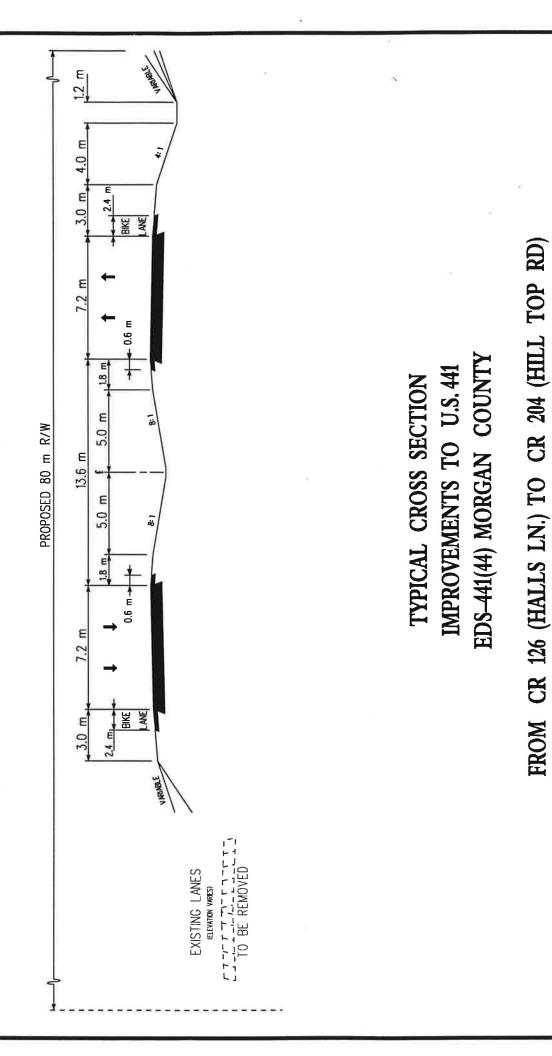
				ON COST mile)
A. RIGHT-OF-WAY	\$	0	\$	0
B. REIMBURSABLE UTILITIES	\$	0	\$	0
CONSTRUCTION COST	SUMI	MARY		
C. MAJOR STRUCTURES	\$	1,152,000		
D. GRADING AND DRAINAGE	\$	157,000		
E. BASE AND PAVING	\$	1,115,000		
F. LUMP ITEMS	\$	227,000		
G. MISCELLANEOUS	\$	171,000		
H. SPECIAL FEATURES	<u>\$</u>	0		
SUBTOTAL CONSTRUCTION COST	\$	2,822,000	\$ 2,8	322,000
E. & C. (10%)	\$	282,000		
INFLATION 2 yr(s) @ 5% per year	<u>\$</u>	318,000		
TOTAL CONSTRUCTION COST	\$	3,422,000	\$ 3,4	422,000
GRAND TOTAL CONSTRUCTION COST	\$	3,422,000	\$ 3,	422,000

RURAL NEW LOCATION-4-LANES WITH 20' RAISED MEDIAN (48' PAV'T)

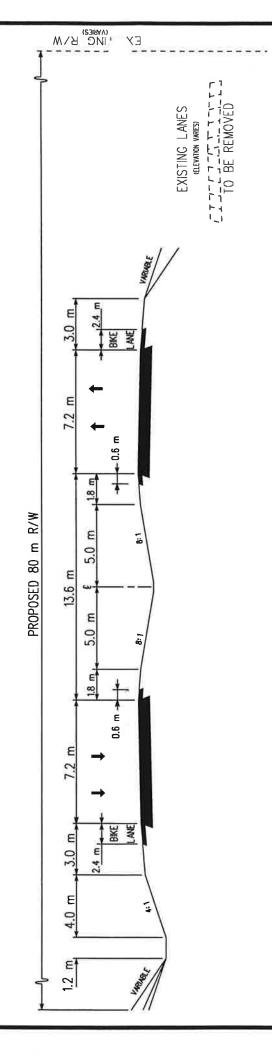


FROM THE BEGIN OF PROJECT TO C.R. 126 (HALLS LN) EDS-441(44) MORGAN COUNTY IMROVEMENTS TO U.S. 441 TYPICAL CROSS SECTION

NOT TO SCALE



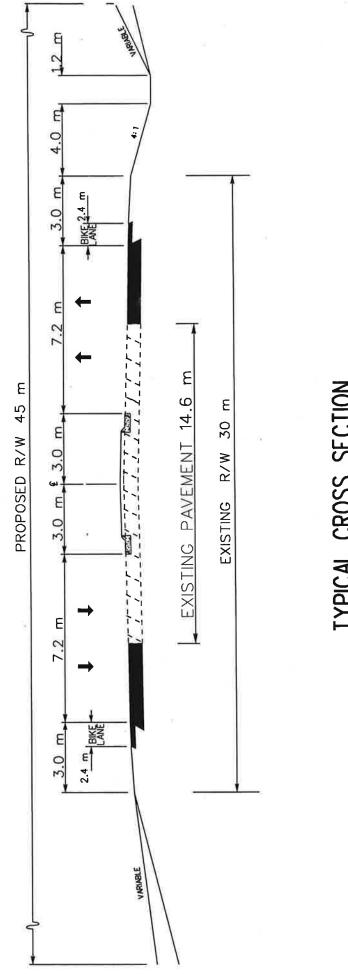
NOT TO SCALE



TYPICAL CROSS SECTION IMPROVEMENTS TO U.S. 441 EDS-441(44) MORGAN COUNTY

FROM CR 204 (HILL TOP RD.) TO 0.6 km SOUTH OF CR 121

NOT TO SCALE



TYPICAL CROSS SECTION

EDS-441(44), MORGAN COUNTY IMPROVEMENTS TO US441

FROM 0.6 km SOUTH OF CR 121 (PIERCE DARY RD.) TO THE END OF PROJECT

DEPAL MENT OF TRANSPORT.TION STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE EDS-441(40,45,44,42,43) Baldwin, Putnam,

OFFICE Environment/Location

Morgan, & Oconee County P.I. Numbers 222470, 222580, 222570, 222560, & 122660

DATE June 24, 1996

FROM

Roxana Ene, TE I, Location Engineer

TO

Distribution Below

SUBJECT

CONCEPT TEAM MEETING MINUTES - US441\SR24 Improvements

On Thursday, June 20, 1996, at 1:30 p.m., a Concept Team Meeting for the proposed US441\SR24 improvement projects in Baldwin, Putnam, Morgan, and Oconee Counties was held in the conference room at the Office of Environment\Location. Representing Georgia Power was Charles L. Chapman. Wendell Dawson and Peter Mallory represented Oconee Co. In attendance from the City of Bishop was Mayor Nedra Johnson. State Representative Frank E. Stancil was also in attendance. Mike Reynolds, Kevin Hosey, Robert Reid and Willie L. Webb from the Office of Road Design were present. Pat Astin-Hand represented the Office of Right-of-Way. The Office of Planning was represented by Cindy VanDyke. Reba P. Scott from the Office of Programming was present. Representing Traffic Operations was Ken Estes. Terry Allgood represented the Walton EMC. In attendance from AT&T were Steve Puckett, Gary Jenkins and Damien Wilson. From NEGRDC were Jennifer Fire, Ruth Lessh and Adriane Wood from the MGRDC. District 1 was represented by Laland Owens and District 2 by David Griffith, Phillip Scarborough and Deborah Pennington. Warren Beverly, Gerald Welsh, Roxana Ene, Ken Thompson and Terry Dentmon of the Office of Environment/Location also attended.

The meeting was opened by Gerry Welsh of Location. He gave a brief description of the projects, explaining that the meeting was being held to discuss improvements to US441\SR24. The concepts were then described in detail by Roxana Ene.

Project EDS-441(40) is the proposed improvement to the existing US441/SR24. This project proposes to widen the existing roadway from 2 lanes to 4 with a 44 feet grassed median. The project begins in Baldwin Co. and extends north 10.4 miles to US129(SR44). At its beginning, the project extends the existing 5 ln.section to just north off the first bridge, where the concept begins transitioning to the 44 median. The concept would hold the existing pavement left, widening the right side of the existing road. Approx. 1 mile north of Cay road (CR245) the proposed alignment changes to the left side of the road to avoid a cemetery on the right side. Approx. 2200' north of Twin Bridges Road (CR72) the proposed alignment changes to the right side to avoid two historic boundaries. The proposed alignment changes to the left side of the road 4000' north of CR246 (Woodland Acres Rd.) to avoid impacting an historic boundary on the right side. Approx. 1200 ft. south of Crest View Rd. (CR247) the proposed alignment shifts left on new location, bridges the RR, avoids an historic boundary on the left side and goes back to widen

the existing road on the right side 1500' south of US129(SR44). The project ends at the Eatonton Bypass.

Design speed is 65MPH (100kph), proposed ROW is 250' (80m). Access control would be by permit. Less than 1 ac. of possible wetlands would be impacted. Seven houses, 2 commercial structures and 5 mobile homes would be displaced.

Project EDS-441(45) is the proposed improvement to the existing US441/SR24. This project proposes to widen the existing roadway from 2 lanes to 4 with a 44 feet grassed median. The project begins at Reids Road in Putnam County and extends north 8.87 miles to the county line At its beginning, the project holds the existing pavement left, widening the right side of the road. Approx. 1mile north of CR177 the concept begins to hold the existing R\W left to avoit an historic boundary on the left and 1400' north of Bethel Circle Road (CR148) the proposed alignment changes to the left side of the road to avoid an historic boundary (just north of Harmony Dr. on the right side of the road) and to minimize displacements. Just north of this historic boundary the concept shifts to the east side because of another historic boundary on the left side of the existing road and to avoid a cemetery on the same side. The project ends at the Putnam/Morgan County line, where the next section (44) begins.

Design speed is 65MPH (100kph), the proposed R/W is 250' (80m) for 44 ft. median. Access control would be by permit. Less than 1 acre of possible wetlands would be impacted. Thirty houses, 7mobile homes and 3 commercial structures would be displaced.

Project EDS-441(44) is the proposed improvement to the existing US441/SR24. This project proposes to widen the existing roadway from 2 lanes to 4 with a 44 feet grassed median. A 20 foot raised median would be used in some sections. The project begins at Putnam - Morgan County line and extends north 8.6 miles to Industrial Park Road (CR225). At its beginning, the project holds the existing pavement west, widening the east side to avoid a historic boundary on left. Approximately, 1000' south from CR204(Hilltop Rd.) alignment changes on the left side to minimize displacements and to avoid "Tucker family graves," an old historic monument. Approx. 2200' south of Pierce Dairy Road (CR121) the concept begins transitioning to a 20' raised median and ties into the existing 5 lane section. The project ends at Industrial Park Road (CR225).

Design speed is 65MPH (100kph), the proposed R/W is 250' (80m) for 44 foot median and 150' (46m) for the 20' raised median section. Access control would be by permit. No wetlands are impacted. Six houses, 1 commercial structure and 2 mobile homes would be displaced.

Project EDS-441(42) is the proposed improvements to the existing US441/SR24. This project proposes to widen the existing roadway from 2 lanes to 4 with a 44 feet grassed median. The project begins at the Madison Bypass and extends north approx. 7.72 miles to just north of the Apalachee River (Morgan-Occonee county line). The concept begins with a 20' raised median and approx. 800' north, the project starts transitioning in a 44' grassed median and holds the left existing R\W to avoid four historic boundaries on the left side of the existing road. Just north of the four historic boundaries the concept holds the left existing pavement widening to the right side. The alignment shifts to the left side 2300' south of CR174 (V.F.W. Lane) and shifts back to the right side 1500' north of CR174 to minimize displacements. The concept would hold the right side to a point 1500' south of CR170 (Apalachee Rd.) where it would shift approximately 600' left

to avoid two historic boundaries and the Southern Railway. Approx. 1000' south of CR177(Sidwell Road.), the project goes back to widen the right side of the existing road and holds this alignment to the end of the project just past the Apalachee River.

Design speed is 65MPH (100kph). The proposed R/W is 250' (80m) for 44 ft. median and 150' for 20' raised median. Access control would be by permit. Approx. 15.72 ac. of possible wetlands would be impacted. Nine houses, 1 commercial structure and 2 barns would be displaced.

Project EDS-441(43) is the proposed improvement to the existing US441/SR24. This project proposes to widen the existing roadway from 2 lanes to 4 with a 44 feet grassed median. The project begins just north of Apalachee River (Morgan/Oconee County line) and extends north for 9.47 miles. At its beginning, the concept would widen the east side of the road. Approx. 2500' north of the beginning of the project the alignment would shift left and hold this alignment to approx. 2000' north of CR116 (Tappan Spur Rd.) where the concept would change to hold the right side of the existing R/W to avoid the RR and historic boundaries at CR267 (Salem Rd.). Approx. 1700' north of CR110 (Old Farmington Rd.) the alignment would shift right to avoid an historic boundary on the left. The alignment would shift left 500' north of the historic boundary. Approximately 1300' south of CR127 (Astondale Rd.) the concept would shift 500' left to minimize impacts with the City of Bishop and the Southern Railway. Approx. 1500' north of CR265 (Price Mill Rd.) the alignment would go back to widen the existing road on the left and hold this alignment to the end of the project (approx. 2000' north off CR107 - Thomas Farm Rd.)

Design speed is 65MPH (100kph). The proposed R/W is 250' (80m) for 44 ft. median. Access control would be by permit. Less than 1 ac. of possible wetlands would be impacted. Ten houses, 2 commercial structures and 4 trailers would be displaced.

After review and description of the concepts, those in attendance were asked for their questions and comments.

COMMENTS:

Local Officials

Chairman of Oconee Co. asked about the schedule for these projects and if there is any priority. Answered that the schedule is late 1999, depending of the funding, and there is no priority. The Chairman also mentioned an additional commercial site north of Bishop not shown on the photography, expensive to relocate.

The Mayor of Bishop asked to consider another alternative to bypass Bishop on the southeast side, where the railroad is abandoned. She also mentioned that the City of Bishop is historic as of 5\96 and she shown a map.

State Representative Stancil said that strongly supports the mayor and citizens of Bishop and the alternative they have requested. He does not feel the RR is usable. He also wanted the number of displacements for Bishop. Told him they are about twenty on the alignment as proposed. He asked about a through movement to the Madison BP. Told that would be handled by a different project, perhaps. Decision might depend upon traffic flow. We would discuss with management. Programming added that if it was decided that another project for this is needed, it should be put in the concept report.

Not in attendance.

Road Design

Asked about the 5 lane section at the beginning of EDS-441(40) and how far it would be taken. Discussion between Tenille District and road design revealed five lane section extends further than Location was aware (past the second bridge). It was decided that it would be better to begin the 44' median after the second bridge which has already been widened to 5 lanes. Asked how many wet lands are on EDS-441(44). Told that on this unit there is no impact with wetlands. Road design asked if all units are on bike route. Answered yes. They also asked about an historic boundary at Rock Eagle 4H camp. Location will look into this. RDC asked to check with historic preservation about the area at Rock Eagle.

AT&T

No conflicts, but heavy presence in Bishop

Traffic Operations

Asked how many bypasses we were connecting to. Answered that we would be connecting to three bypasses. They also asked if we had pulled back far enough to make grades work at intersection near Rock Eagle? Answered yes.

District Offices

No comment.

Federal Resource Agencies

Not in attendance.

Engineering Services

Not in attendance.

Georgia Power

They are heavily impacted on EDS-441(42) & (43). Asked if state would allow placement of relocated facilities on R\W. Road design felt that that would be the case.

Materials and Research

Not in attendance.

Maintenance

Not in attendance.

Planning

Provided need and purpose statement. Explained GRIP and EDS.

Programming

Commented that the high number of displacements called for a re-estimation of R\W costs. We said that the 250' of R\W we show to the public is "the worse case" and a R\W estimate will be requested as soon as we have a "firm" alignment.

Railroad

Not in attendance.

Office of Utilities

Not in attendance.

Schedule

Both projects scheduled to let to construction in late 1999.

Conclusions

Locals are enthusiastic about the projects and they asked do not let "Bishop situation" hold up projects.

RRE/re

Distribution: Wayne Hutto

Ronald Collins/Attn: Warren Bailey Herman Griffin/Attn: Terry Rogers

Jim Kennerly Toni Dunagan Marion Waters Bobby Mustin Dudley Ellis

David Meshberger Larry Seabrook Bascombe Hughes Harvey Keepler

Hugh Tyner/Gainesville District Charles Norris/Tenille District

Luke Cousins

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT EDS-441(44) PUTNAM COUNTY P.I. NO. 222570

	•		
US Route No.:	441	Date of Report:	March 3, 1997
State Route No.:	24		
	RECO	OMMENDATION FOR APPROVAL	
3/18/97 Date		O 15 TMM (1) State Environmental/Location Eng	gineer
Date		State Road & Airport Design Engi	neer
Date		State Traffic Operations Engineer	
<u>4/1/97</u> Date		Charles W. Monoph District Engineer/Tennille	<u> 201</u>
Date		Project Review Engineer	

Date

State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA RECEIVED AFR 2 1997 INTERDEPARTMENT CORRESPONDENCE RECONSTRUCTION

FILE

EDS-441(42) Morgan County

OFFICE

Atlanta, GA

P.I. No. 222560

DATE

April 17, 1997

FROM

Kenneyly, State Road & Airport Design Engineer

TO

C. Wayne Hutto, Assistant Preconstruction Engineer

SUBJECT

Review of Project Concept Report

This office has reviewed the Project Concept Report for the above project and approves subject to the following comments:

- 1. Project designation should be "S/F" (state funded) rather than Non-CA or Exempt as checked in the report.
- 2. The sufficiency ratings for Hard Labor, Big Sandy and Apalachee Creek bridges are all very near 50, yet all are proposed to be widened. The suitability of these bridges for widening should be verified.
- 3. The typical sections should indicate the existing pavement crowned in the center, with overlay and leveling wiping out that crown since 80% of the project is being reconstructed. The typicals show the existing pavement with no crown.
- 4. Bike shoulders provided should be 2.4 m in width per recent Walker Scott letter.
- 5. No layouts were provided, so this review is on the report only, not the alignment or layout.

A signed cover sheet is provided for your use. If there are any questions, please contact Kevin Hosey at (404)657-9192.

Attachment

cc:

David Studstill Charles Norris



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT EDS-441(42) MORGAN COUNTY P.I. NO. 222560

US Route No.:	441	Date of Report: March 3, 1997	
State Route No.:	24		
W	R	ECOMMENDATION FOR APPROVAL	
3/19/97 Date		Old Httll / State Environmental/Location Engineer	
4-18/57 Date		State Road & Airport Design Engineer	
Date		State Traffic Operations Engineer	
		District Engineer/Tennille	
Date .		Project Review Engineer	
Date		State Bridge & Structural Design Engineer	

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT EDS-441(44) PUTNAM COUNTY

		P.I. NO. 222570	
US Route No.:	441	Date of Report: March 3, 1997	
State Route No.:	24		
	REC	COMMENDATION FOR APPROVAL	
3/18/97 Date		State Environmental/Location Engineer	
Date		State Road & Airport Design Engineer	
Date		State Traffic Operations Engineer	ě
Date		District Engineer/Tennille	

Project Review Engineer

May 2, 1997 Date

Date

State Bridge & Structural Design Engineer

D.O.T.66

FROM

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-441 (44), Morgan Co

P.I. No. 222570

OFFICE Traffic Operations

Atlanta, Georgia

" -- Charletter

DATE May 9, 1997

myw pma

Marion G. Waters, III, P.E., State Traffic Operations Engineer

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT Project Concept Report Review

We have reviewed the concept report on the above project for the proposed widening of SR 24/ US 441 from the Putnam/ Morgan county line to the Madison Bypass. The existing two lane roadway will be widened to a four lane section with either a 13.6 m grass median or a 6 m raised median. While we believe this concept will improve safety and operational capacity along this section of roadway, we recommend providing for the minimum clear recovery area in the cut sections for a 105 km/h speed design. With this, we find this report satisfactory for approval.

MGW:CKE

Attachment (signature page)

cc: David Studstill James Kennerly Bob Mustin, w/attachment

General Files

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA OFFICE OF ENVIRONMENT/LOCATION

PROJECT CONCEPT REPORT EDS-441(44) PUTNAM COUNTY PLNO 222570

		P.I. NO. 222570
US Route No.:	441	Date of Report: March 3, 1997
State Route No.:	24	
	REC	COMMENDATION FOR APPROVAL
3/18/97 Date		State Environmental/Location Engineer
Date		State Road & Airport Design Engineer
<u>5-12-97</u> Date		Mulates III sma State Traffic Operations Engineer
Date		District Engineer/Tennille

Project Review Engineer

State Bridge & Structural Design Engineer

Date

Date